IRRIGATION REHABILITATION PROGRAM

2010/2011

STATUS REPORT

Prepared by

Government of Alberta
Agriculture and Rural Development

Irrigation Secretariat

Lethbridge, Alberta
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ACKNOWLEDGEMENT

Don Gross of Alberta Agriculture and Rural Development's Water Resources Branch provided much of the information contained in this report as part of Mr. Gross' monitoring of the construction activities of the irrigation districts. We greatly appreciate and acknowledge the significant assistance provided by Mr. Gross in the completion of this report.

LIST of ACRONYMS

IRP – IRRIGATION REHABILITATION PROGRAM
ICW – IRRIGATION CAPITAL WORKS
MW – MAJOR WORKS
PS – PLANNING STUDIES
PVC – POLYVINYLCHLORIDE
10/11 – CONSTRUCTION PERIOD August 1, 2010 to July 31, 2011

ABSTRACT

This annual Irrigation Rehabilitation Program Status Report summarizes the expenditures and status of IRP projects that were active during the construction period August 1, 2010 to July 31, 2011.

The IRP began in 1969 and is a cost shared program between Alberta Agriculture and Rural Development and Alberta's 13 irrigation districts. Since 1969 funding levels have varied between $600,000 and $33,400,000 per year. The 2010 funding allocations are shown in Table 1.

The provincial/irrigation district cost share ratio has varied since 1969, starting at 86% province - 14 % irrigation district, changing to 80% - 20% in 1994/95 and to 75% - 25% in 1995/96 and remains at that ratio today.

Irrigation Rehabilitation Financing Agreements are prepared annually between the Minister and each irrigation district. Projects must be approved by Irrigation Council prior to any project costs being paid for with cost shared funds, and all eligible project expenditures must be documented by Progress Certificates.

Circumstances may arise that require an irrigation district to change project priorities from time to time. As well, actual costs may differ from estimated costs because of various circumstances, i.e. poor working conditions due to weather, construction cost inflation, etc.

Information contained in this report was gathered from random monitoring (field visits) of project construction sites, records from the Water Resources Branch, the Irrigation Secretariat and information from irrigation district personnel.

The IRP funding is provided to the districts according to an inter-district allocation formula. To July 31, 2011, approximately $990 million has been expended on 1726 projects approved for rehabilitation under the IRP cost shared program.

TABLES

The following tables summarize the results of each district's activities for 2010/2011.

Table 1: **Irrigation Rehabilitation Program – Funding**

- Lists the IRP funding received by each district together with the district's share.

Table 2: **Irrigation Rehabilitation Program – Project Construction**

- Lists the IRP projects having substantial construction in each district with statistical data for each project.

Table 3: **Irrigation Rehabilitation Program – Summary of Funding and Expenditures**

- Lists each district's Major Works, Irrigation Capital Works and Planning Study expenditures, total funding allocation, and total expenditures. The expenditures are calculated from each district's progress certificates submitted for the construction period.

Table 4: **Irrigation Rehabilitation Program – Summary of Lengths and Type of Rehabilitation**

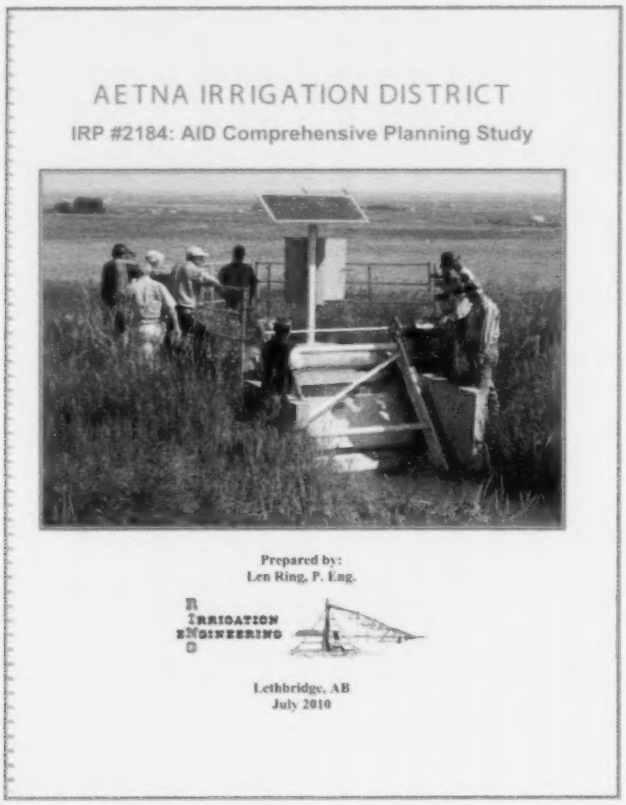
- Historical summary of total length and type of rehabilitation completed from 1969 to July 31, 2011.

Table 5: **Irrigation Rehabilitation Program – Summary of Existing Rehabilitated Lengths**

- Lists the length of the irrigation districts current distribution systems, rehabilitated lengths in each district to July 31, 2010, the length of rehabilitation within the 2010/2011 construction period, and the total length rehabilitated to July 31, 2011.

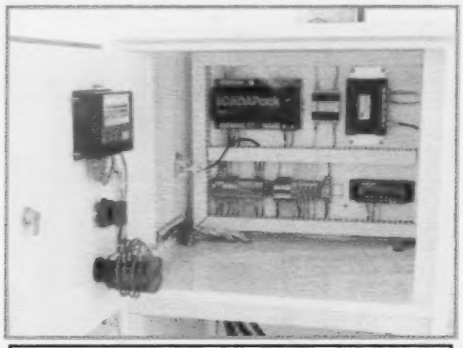
AETNA IRRIGATION DISTRICT (AID)

During this reporting period the AID expended $1,722 of IRP cost shared funds for completion of their Comprehensive Planning Study, IRP #2184. This was the only project with expenditures in the AID for 2010/2011.



BOW RIVER IRRIGATION DISTRICT (BRID)

During this reporting period the BRID expended $6,791,114 of IRP cost shared funds on twenty three projects. MW expenditures total $41,007 and ICW and PS expenditures total $6,750,107. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2010/2011 are listed below.



Flow measurement control panel
Project #2122

Pipeline turnout
Project #2182

BRID IRP Project Construction Summary

August 1, 2010 to July 31, 2011

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 10/11	% Completed to July 31/11	Liners (metres)	Pipe (metres)	Earth (metres)
*2122	MW	BRID Flow Measurement & Automation 2008	2008 02	2011 03	100%	100%	1 site upgraded to SCADA		
2182	ICW	Laterals A, A-1 & A-3 (West Block)	2010 04	2010 10	100%	100%		19463	
2195	ICW	Lateral A-2 (West Block)	2010 02	2010 11	100%	100%		2717	
2196	ICW	Lateral H-6 (West Block)	2010 02	2010 11	100%	100%		3171	
2209	ICW	Lateral A-8 and H (Vauxhall Block)	2010 08	2010 11	100%	100%		4982	
								30333	

NOTE: * indicates Special Funding used towards this project

EASTERN IRRIGATION DISTRICT (EID)

During this reporting period the EID expended $11,651,678 of IRP cost shared funds on seven projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2010/2011 are listed below.

Tilley Canal structure automation
Project #2129

PVC pipe installation
Project #2224 and Project #2225

EID IRP Project Construction Summary

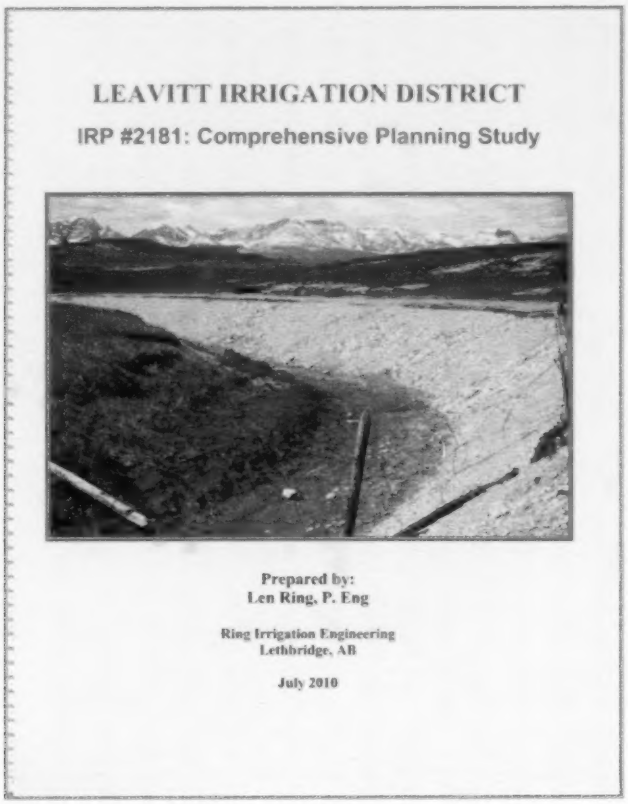
August 1, 2010 to July 31, 2011

			Date				Rehabilitation Completed		
IRP #	**ICW /MW /PS**	**Project Name**	**Project Approved**	**Construction Start**	**% Completed in 10/11**	**% Completed to July 31/11**	**Liners (metres)**	**Pipe (metres)**	**Earth (metres)**
*2129	ICW	EID Flow Measurement, Automation 2008	2008 02	2011 03	100%	100%	automate 3 check structures		
2203	ICW	North Bantry Canal	2010 02	2010 11	100%	100%	8840		3433
2224	ICW	11 Rolling Hills	2010 12	2011 02	100%	100%		4361	
2225	ICW	05 C East Branch	2010 12	2011 03	100%	100%		4255	
							8840	8616	3433

NOTE: * indicates Special Funding used towards this project

LEAVITT IRRIGATION DISTRICT (LID)

During this reporting period, the LID expended $1,914 of IRP cost shared funds for completion of their Comprehensive Planning Study, IRP #2181. This was the only project with expenditures in the LID for 2010/2011.



LETHBRIDGE NORTHERN IRRIGATION DISTRICT (LNID)

During this reporting period the LNID expended $5,399,534 of cost shared funds on four projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2010/2011 are listed below.

Lateral D1 pipeline
Project #2133

LNID IRP Project Construction Summary

August 1, 2010 to July 31, 2011

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 10/11	% Completed to July 31/11	Liners (metres)	Pipe (metres)	Earth (metres)
2133	ICW	Lateral D1	2009 02	2010 09	100%	100%		21913	

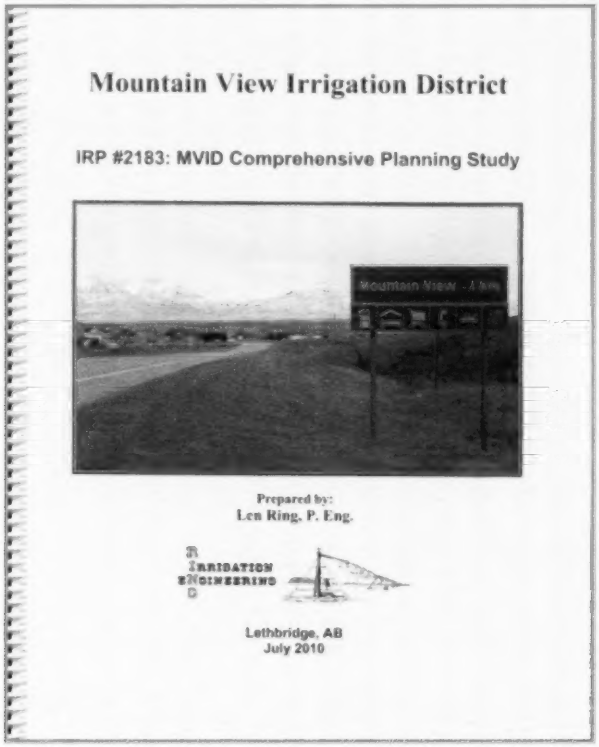
MAGRATH IRRIGATION DISTRICT (MID)

During this reporting period the MID expended $56,378 of IRP cost shared funds on three projects in the ICW category. These expenditures involved cleanup of IRP projects completed in 2009/2010. There was no major construction in the MID for 2010/2011.

Cosmetic grooming along pipeline routes
Project #1983

MOUNTAIN VIEW IRRIGATION DISTRICT (MVID)

During this reporting period the MVID expended $1,081 of IRP funds for completion of their Comprehensive Planning Study, IRP #2183. This was the only project with expenditures in the MVID for 2010/2011.



RAYMOND IRRIGATION DISTRICT (RID)

During this reporting period the RID expended $719,439 of IRP cost shared funds on seven projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. The two projects with significant construction in 2010/2011 are listed below.

Stirling Laterals 18&19
Project #2190

RID IRP Project Construction Summary

August 1, 2010 to July 31, 2011

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 10/11	% Completed to July 31/11	Liners (metres)	Pipe (metres)	Earth (metres)
2190	ICW	Stirling Laterals 18&19	2010 02	2010 11	100%	100%		5581	
2191	ICW	Raymond SMRID lateral #2	2010 02	2010 10	100%	100%		441	
								6022	

ROSS CREEK IRRIGATION DISTRICT (RCID)

No funds were expended by the RCID during this reporting period.

St. Mary River Irrigation District (SMRID)

During this reporting period the SMRID expended $9,142,581 of IRP cost shared funds on twenty-eight projects. MW expenditures total $448,397 and ICW & PS expenditures total $8,694,184. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2010/2011 are listed below.

SMRID Aquatic Weed and Algae control structures (2011) Project #2201

North Lateral Gravel Armouring Project #1862

SMRID IRP Project Construction Summary

August 1, 2010 to July 31, 2011

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 10/11	% Completed to July 31/11	Liners (metres)	Pipe (metres)	Earth (metres)
1799	ICW	Bow Island Lateral 26 Concrete	1998 06	2008 10	25%	57%		8898	
1862	ICW	North Lateral Gravel Armouring	2001 12	2002 10	21%	100%	1112		2314
2052	ICW	Yellow Lake Lateral 4	2006 02	2007 10	29%	100%		5531	
2153	ICW	Chin Lateral 11	2010 02	2011 01	100%	100%		1475	
2168	ICW	West Medicine Hat Lateral 2 (upstream)	2009 02	2010 11	37%	37%		7257	
2188	ICW	Bow Island Lateral 10D	2010 02	2010 10	100%	100%		4989	
2192	ICW	SMRID Aquatic Weed and Algae Control Project (2010)	2009 11	2010 01	40%	100%	install 2 weed control sites		
2201	ICW	Aquatic Weed and Algae control structures (2011)	2010 02	2011 01	100%	100%	install 9 weed control sites		
2208	ICW	SCADA Infrastructure Upgrade (SMRID East)	2010 04	2010 05	100%	100%	upgrade SMRID East SCADA		
2213	MW	Northeast Lateral Section 15-10-20-W4	2010 09	2010 10	100%	100%			1873
							1112	28150	4187

TABER IRRIGATION DISTRICT (TID)

During this reporting period the TID expended $2,205,302 of IRP cost shared funds on nine projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. The one project with significant construction in 2010/2011 is listed below.

East Horsefly Main Canal
Downstream Reach
Project #2194

TID IRP Project Construction Summary

August 1, 2010 to July 31, 2011

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 10/11	% Completed to July 31/11	Liners (metres)	Pipe (metres)	Earth (metres)
2194	ICW	East Horsefly Main Canal Downstream Reach	2010 02	2010 10	50%	50%		4600	

UNITED IRRIGATION DISTRICT (UID)

During this reporting period the UID expended $848,199 of IRP cost shared funds on seven projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. The one project with significant construction in 2010/2011 is listed below.

Lateral D
Project #2161

UID IRP Project Construction Summary

August 1, 2010 to July 31, 2011

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 10/11	% Completed to July 31/11	Liners (metres)	Pipe (metres)	Earth (metres)
2161	ICW	Lateral D	2009 02	2010 03	56%	72%			2889

WESTERN IRRIGATION DISTRICT (WID)

During this reporting period the WID expended $1,888,688 of IRP cost shared funds on three projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. The one project with significant construction in 2010/2011 is listed below.

Secondary A Canal (Strathmore Golf Course to Parklane Drive) Project #2175

WID IRP Project Construction Summary

August 1, 2010 to July 31, 2011

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 10/11	% Completed to July 31/11	Liners (metres)	Pipe (metres)	Earth (metres)
2175	ICW	Secondary A Canal (Strathmore Golf Course to Parklane Drive)	2010 02	2010 10	100%	100%	3255		

TABLES

2010 IRRIGATION REHABILITATION PROGRAM FUNDING

TABLE 1

The following table lists IRP grants received by each district together with each district's share.

IRRIGATION DISTRICT	BASE FUNDING GRANT	BASE FUNDING DISTRICT SHARE	TOTAL PROGRAM
AETNA	$80,997	$26,999	$107,996
BOW RIVER	$3,864,932	$1,288,311	$5,153,243
EASTERN	$5,685,261	$1,895,087	$7,580,348
LEAVITT	$99,704	$33,235	$132,939
LETHBRIDGE NORTHERN	$2,654,325	$884,775	$3,539,100
MAGRATH	$291,410	$97,137	$388,547
MOUNTAIN VIEW	$96,684	$32,228	$128,912
RAYMOND	$663,832	$221,277	$885,109
ROSS CREEK	$27,576	$9,192	$36,768
ST MARY RIVER	$6,291,106	$2,097,035	$8,388,141
TABER	$1,329,486	$443,162	$1,772,648
UNITED	$665,808	$221,936	$887,744
WESTERN	$2,248,877	$749,626	$2,998,503
TOTALS	**$23,999,998**	**$8,000,000**	**$31,999,998**

NOTE: Base Funding Grants are cost shared 75% provincial/25% irrigation district
Base Funding Grants are based on the Inter-District Allocation Formula as follows:

- 50% of the funds allocated on the basis of the number of irrigation acres in each district, and
- 50% of the funds allocated on the basis of the infrastructure replacement cost of specified infrastructure in each district

IRRIGATION REHABILITATION PROGRAM
PROJECT CONSTRUCTION
AUGUST 1, 2010 to JULY 31, 2011

TABLE 2
1 of 2

				DATE				REHABILITATION COMPLETED		
DISTRICT	PROJECT #	ICW /MW /PS	PROJECT NAME	PROJECT APPROVAL	CONSTRUCTION START	% COMPLETED in 10/11	% COMPLETE to July 31/11	LINERS	PIPE	EARTH
								(length in metres)		
BRID	2122	MW	BRID Flow Measurement/Automation 2008	2008 02	2011 03	100%	100%	upgrade 1 site to SCADA		
BRID	2182	ICW	Laterals A, A-1 & A-3 (West Block)	2010 04	2010 10	100%	100%		19463	
BRID	2195	ICW	Lateral A-2 (West Block)	2010 02	2010 11	100%	100%		2717	
BRID	2196	ICW	Lateral H-6 (West Block)	2010 02	2010 11	100%	100%		3171	
BRID	2209	ICW	Lateral A-8 and H (Vauxhall Block)	2010 08	2010 11	100%	100%		4982	
EID	2129	ICW	EID Flow Measurement, Automation 2008	2008 02	2011 03	100%	100%	automate 3 checks		
EID	2203	ICW	North Bantry Canal	2010 02	2010 11	100%	100%	8840		3433
EID	2224	ICW	11 Rolling Hills	2010 12	2011 02	100%	100%		4361	
EID	2225	ICW	05 C East Branch	2010 12	2011 03	100%	100%		4255	
LNID	2133	ICW	Lateral D1	2009 02	2010 09	100%	100%		21913	
RID	2190	ICW	Stirling Laterals 18&19	2010 02	2010 11	100%	100%		5581	
RID	2191	ICW	Raymond SMRID lateral #2	2010 02	2010 10	100%	100%		441	
SMRID	1799	ICW	Bow Island Lateral 26 Concrete	1998 06	2008 10	25%	57%		8898	
SMRID	1862	ICW	North Lateral Gravel Armouring	2001 12	2002 10	21%	100%	1112		2314
SMRID	2052	ICW	Yellow Lake Lateral 4	2006 02	2007 10	29%	100%		5531	
SMRID	2153	ICW	Chin Lateral 11	2010 02	2011 01	100%	100%		1475	
SMRID	2168	ICW	West Medicine Hat Lateral 2 (upstream)	2009 02	2010 11	37%	37%		7257	
SMRID	2188	ICW	Bow Island Lateral 10D	2010 02	2010 10	100%	100%		4989	
SMRID	2192	ICW	Aquatic Weed and Algae Control (2010)	2009 11	2010 01	40%	100%	install 2 weed control sites		
SMRID	2201	ICW	Aquatic Weed and Algae control (2011)	2010 02	2011 01	100%	100%	install 9 weed control sites		
SMRID	2208	ICW	SCADA Infrastructure Upgrade	2010 04	2010 05	100%	100%	upgrade SCADA		
SMRID	2213	MW	Northeast Lateral Section 15-10-20-W4	2010 09	2010 10	100%	100%			1873

IRRIGATION REHABILITATION PROGRAM
PROJECT CONSTRUCTION
AUGUST 1, 2010 to JULY 31, 2011

TABLE 2
2 of 2

				DATE				REHABILITATION COMPLETED		
DISTRICT	PROJECT #	ICW /MW /PS	PROJECT NAME	PROJECT APPROVAL	CONSTRUCTION START	% COMPLETED in 10/11	% COMPLETE to July 31/11	LINERS	PIPE	EARTH
								(length in metres)		
TID	2194	ICW	East Horsefly Main Canal Downstream	2010 02	2010 10	50%	50%		4600	
UID	2161	ICW	Lateral D	2009 02	2010 03	56%	72%			2889
WID	2175	ICW	Secondary A Canal	2010 02	2010 10	100%	100%	3255		
								13207	99634	10509
								TOTAL:	123350	

IRRIGATION REHABILITATION PROGRAM **TABLE 3**
SUMMARY OF FUNDING AND EXPENDITURES
AUGUST 1, 2010 to JULY 31, 2011

DISTRICT	2010 TOTAL FUNDING GOV'T & DIST SHARE	10/11 MW EXPENDITURES	10/11 ICW + PS EXPENDITURES	10/11 TOTAL EXPENDITURES
AID	$107,996	$0	$1,722	$1,722
BRID	$5,153,243	$41,007	$6,750,107	$6,791,114
EID	$7,580,348	$0	$11,651,678	$11,651,678
LID	$132,939	$0	$1,914	$1,914
LNID	$3,539,100	$0	$5,399,534	$5,399,534
MID	$388,547	$0	$56,378	$56,378
MVID	$128,912	$0	$1,081	$1,081
RID	$885,109	$0	$719,439	$719,439
RCID	$36,768	$0	$0	$0
SMRID	$8,388,141	$448,397	$8,694,184	$9,142,581
TID	$1,772,648	$0	$2,205,302	$2,205,302
UID	$887,744	$0	$848,199	$848,199
WID	$2,998,503	$0	$1,888,688	$1,888,688
TOTALS	**$31,999,998**	**$489,404**	**$38,218,226**	**$38,707,630**

NOTE: (1) The total expenditures do not equal the total program funding as construction may occur in a different year (or years) than the year the funds were allocated.

(2) Special Funding is included (if any).

(3) Some districts accrue funds to construct a larger project in the future.

(4) Expenditures are categorized as either:
MW (Major Works) - includes storage reservoirs and dams or conveyance works and seepage control where the design capacity is 6 m^3/s or greater,
ICW (Irrigation Capital Works) - all other irrigation district infrastructure, or
PS (Planning Studies) - studies and digital or photographic imagery used in an irrigation district's overall rehabilitation planning.

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF LENGTH and TYPE OF REHABILITATION
1969 to JULY 31, 2011

TABLE 4

	CONCRETE LINING (km)	MEMBRANE LINERS (km)	PIPELINES (km)	EARTH CANALS (km)	TOTALS (km)	OPEN DRAINS (km)
69/80	219.14	36.07	83.41	211.30	549.92	205.85
80/81	20.04	19.50	24.18	73.19	136.91	41.16
81/82	13.12	18.50	30.27	45.78	107.67	72.89
82/83	15.52	29.13	97.63	103.98	246.26	36.02
83/84	7.01	56.63	56.48	106.52	226.64	16.33
84/85	7.05	48.92	53.09	87.02	196.08	26.68
85/86	7.71	28.08	94.39	94.93	225.11	7.05
86/87	4.58	32.44	85.61	75.00	197.63	15.58
87/88	2.79	37.80	49.75	55.45	145.79	12.83
88/89	0.04	43.16	60.68	47.27	151.15	47.08
89/90	0.00	18.96	54.27	49.03	122.26	3.12
90/91	0.00	34.09	64.54	51.49	150.12	4.21
91/92	0.00	15.86	95.59	43.30	154.75	3.18
92/93	0.00	11.20	76.44	28.33	115.97	7.64
93/94	0.00	26.32	78.22	75.29	179.83	8.58
94/95	0.00	23.31	69.97	15.31	108.59	8.44
95/96	0.00	18.63	92.62	23.28	134.53	8.58
96/97	0.00	11.85	138.74	26.24	176.83	0.00
97/98	0.00	23.71	88.52	16.87	129.10	0.29
98/99	0.00	21.68	86.53	16.57	124.78	0.00
99/00	0.00	11.00	116.57	24.76	152.33	4.59
00/01	0.00	11.65	91.22	9.15	112.02	0.15
01/02	0.00	1.37	96.40	14.55	112.32	0.00
02/03	0.00	4.20	129.31	18.56	152.07	1.70
03/04	0.00	6.37	157.23	8.72	172.32	2.45
04/05	0.00	15.74	97.62	12.94	126.30	1.42
05/06	0.00	1.24	117.86	16.02	135.12	1.42
06/07	0.00	0.70	123.11	13.25	137.06	0.00
07/08	0.00	2.91	73.89	7.17	83.97	0.00
08/09	0.00	2.85	89.20	23.06	115.11	0.50
09/10	0.00	3.32	137.48	18.87	159.67	0.00
10/11	0.00	13.21	99.63	10.51	123.35	0.00
TOTALS	**297.00**	**630.40**	**2810.45**	**1423.71**	**5161.56**	**537.74**
% of Total	**5.8%**	**12.2%**	**54.4%**	**27.6%**		

NOTES: (1) Open drains designate earth drains used to channel irrigation spill water: lengths do not include deep interceptors, toe drains, tile drains or tile grid systems.
(2) Drains are not included in TOTALS.
(3) Total length differs from Table 5 due to recurrent rehabilitation.

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF REHABILITATED LENGTHS
to JULY 31, 2011

TABLE 5

DISTRICT	TOTAL DISRTICT SYSTEMS (km)	TOTAL SYSTEMS REHABILITATED to JULY 31, 2010 (km)	2010/2011 REHABILITATION (km)	TOTAL to JULY 31, 2011 (km)	% of TOTAL DISTRICT SYSTEM REHABILITATION
AID	37.15	22.32	0	22.32	**60%**
BRID	1005.28	747.51	30.33	777.84	**77%**
EID	1920.38	770.85	20.89	791.74	**41%**
LID	53.44	40.44	0	40.44	**76%**
LNID	744.30	520.40	21.91	542.31	**73%**
MID	100.60	88.45	0	88.45	**88%**
MVID	39.66	33.73	0	33.73	**85%**
RID	230.21	205.33	6.02	211.35	**92%**
RCID	26.34	21.69	0	21.69	**82%**
SMRID	1823.66	1170.85	33.45	1204.30	**66%**
TID	337.59	304.88	4.60	309.48	**92%**
UID	236.77	149.12	2.89	152.01	**64%**
WID	1064.52	318.20	3.26	321.46	**30%**
TOTALS	**7619.90**	**4393.77**	**123.35**	**4517.12**	**59%**

NOTES:

(1) Lengths in AID, BRID, EID, LNID, SMRID, UID, & WID exclude Main Canals that were rehabilitated under Alberta Environment's Water Management Systems Improvement Program.

(2) Total Systems Rehabilitated for EID does not include Bank Rebuilding Projects constructed from 1977 to 1982.

(3) Total Systems Rehabilitated for WID does not include "TREE REMOVAL" Projects.

(4) Totals do not include drainage works.

(5) Totals do not include works rehabilitated by a district using its own funds.

(6) Total length differs from Table 4 due to recurrent rehabilitation.